Remote Cognitive Behavioral Therapy (CBT) for Anxious Children

Program description:

These treatments utilize the same principles and techniques as those of other CBT treatments for anxiety; however, they are unique insofar as clients have reduced (if any) face-to-face time with therapists. Clients are supported remotely via email or phone contact. A manual or online program helps to guide progress of the intervention.

Typical age of primary program participant: 10

Typical age of secondary program participant: N/A

Meta-Analysis of Program Effects

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Outcomes Measured	Primary or Second	No. of Effect Sizes		sted Effe m Effects		Adjusted Effect Sizes and Standard Errors Used in the Benefit-Cost Analysis						
	-ary Partici- pant		ES SE p-value		First time ES is estimated ES SE Age			Second time ES is estimated ES SE Age				
Anxiety disorder	Р	5	-1.14	0.26	0.00	-0.30	0.26	10	-0.13	0.11	15	

Benefit-Cost Summary

The estimates shown are present	Program Benefits			Costs	Summary Statistics					
value, life cycle benefits and costs. All dollars are expressed in the base year chosen for this analysis (2011). The economic discount rates and other relevant parameters are described in Technical Appendix 2.	Partici- pants	Tax- payers	Other	Other Indirect	Total Benefits		Benefit to Cost Ratio	Return on Invest- ment	Benefits Minus Costs	Probability of a positive net present value
described in Technical Appendix 2.	\$2,934	\$2,265	\$1,327	\$1,126	\$7,653	\$741	n/e	n/e	\$8,393	96%

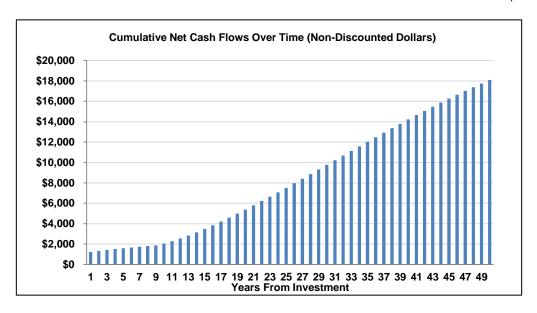
Detailed Monetary Benefit Estimates

Benefits to:							
Partici-	Taxpavers	Other	Other In- direct	Total Benefits			
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\$2,488	\$915	\$0	\$461	\$3,864			
\$447	\$1,349	\$1,327	\$665	\$3,789			
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	pants \$2,488	Participants Taxpayers \$2,488 \$915	Participants Taxpayers Other \$2,488 \$915 \$0	Participants Taxpayers Other direct \$2,488 \$915 \$0 \$461			

Detailed Cost Estimates

The figures shown are estimates of the costs to implement programs in	Program Costs		Comparison Costs			Summary Statistics		
Washington. The comparison group costs reflect either no treatment or treatment as usual, depending on how	Annual Cost	Program Duration	Year Dollars	Annual Cost	Program Duration	Year Dollars	Present Value of Net Program Costs (in 2011 dollars)	Uncertainty (+ or – %)
effect sizes were calculated in the meta- analysis. The uncertainty range is used in Monte Carlo risk analysis, described in Technical Appendix 2.	\$217	1	2010	\$943	1	2010	-\$726	10%

Source: Based on therapist time, as reported in the treatment studies, as well as training costs and a flat fee for materials (e.g., manuals). Hourly therapist cost is based on the latest actuarial estimates of reimbursement by modality in WA State (DSHS).



Additional Notes

Some studies included in this analysis compared the program (CBT) to control conditions that did not consist of an active treatment. Because policymakers in Washington are interested in the impact of this program above and beyond currently implemented treatments (i.e., treatment as usual), we reduced the effect size of studies utilizing a no treatment or waitlist control group in half to reflect a smaller impact that would be expected if these studies compared CBT to treatment as usual.

We conducted a meta-regression to test for differences among various formats of CBT for anxious children (remote, individual, group, and parent CBT). The results showed that there were no statistically significant differences in the effect of various formats of CBT on anxiety. These treatments are presented separately, however, because each format is associated with a different program cost.

Multiplicative Adjustments Applied to the Meta-Analysis

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Type of Adjustment	Multiplier					
1- Less well-implemented comparison group or observational study, with some covariates.	1.00					
2- Well-implemented comparison group design, often with many statistical controls.	1.00					
3- Well-done observational study with many statistical controls (e.g., IV, regression discontinuity).	1.00					
4- Random assignment, with some RA implementation issues.	1.00					
5- Well-done random assignment study.	1.00					
Program developer = researcher	0.42					
Unusual (not "real world") setting	1.00					
Weak measurement used	1.00					

Multipliers were generated by examining studies for the treatment of children or adolescents with internalizing problems. Because weak measurement and unusual setting designations were extremely rare among these studies, no adjustments were made. Meta-regressions were conducted to test for the impact of different methodological factors on unadjusted effect size. Dummy variables for research design were not significant, indicating that this factor did not impact effect sizes. However, the involvement of program developers in the research was a significant predictor of effect size (B=-.482, p=.077), suggesting that such studies have more negative (i.e., larger) effect sizes than studies in which the developer is not involved in the evaluation. The regression coefficient was used to generate the 0.42 multiplier.

Studies Used in the Meta-Analysis

- Khanna, M. S., & Kendall, P. C. (2010). Computer-assisted cognitive behavioral therapy for child anxiety: Results of a randomized clinical trial. *Journal of Consulting and Clinical Psychology*, 78(5), 737-745.
- Lyneham, H. J., & Rapee, R. M. (2006). Evaluation of therapist-supported parent-implemented CBT for anxiety disorders in rural children. *Behaviour Research and Therapy*, 44(9), 1287-1300.
- March, S., Spence, S. H., & Donovan, C. L. (2009). The efficacy of an internet-based cognitive-behavioral therapy intervention for child anxiety disorders. *Journal of Pediatric Psychology, 34*(5), 474-487.
- Rapee, R. M., Abbott, M. J., & Lyneham, H. J. (2006). Bibliotherapy for children with anxiety disorders using written materials for parents: A randomized controlled trial. *Journal of Consulting and Clinical Psychology*, 74(3), 436-444.
- Spence, S. H., Holmes, J. M., March, S., & Lipp, O. V. (2006). The feasibility and outcome of clinic plus internet delivery of cognitive-behavior therapy for childhood anxiety. *Journal of Consulting and Clinical Psychology*, 74(3), 614-621.